



DUAL INDUCTION LOG

Company HERMAN L. LOEB, LLC.
Well EAGLE CANYON #1-17
Field WILDCAT
County KIOWA State KANSAS

Location: API #: 15-097-21862-0000
1325' FNL & 1459' FEL
NE - NE - SW - NE
SEC 17 TWP 28S RGE 20W
Permanent Datum GROUND LEVEL Elevation 2318
Log Measured From KELLY BUSHING 13' A.G.L.
Drilling Measured From KELLY BUSHING
Other Services
CDL/CNL/PE
MEL/SONIC
Elevation
K.B. 2331
D.F. 2329
G.L. 2318

Date	7/12/22		
Run Number	ONE		
Depth Driller	5050		
Depth Logger	5050		
Bottom Logged Interval	5048		
Top Log Interval	00		
Casing Driller	8 5/8"@595'		
Casing Logger	595		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES: 6,800 PPM	
Density / Viscosity	9.2/58		
pH / Fluid Loss	11.0/8.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.600@84F		
Rmf @ Meas. Temp	.450@84F		
Rmc @ Meas. Temp	.720@84F		
Source of Rmf / Rmc	MEASURED		
Rm @ BHT	.403@125F		
Time Circulation Stopped	3 HOURS		
Time Logger on Bottom	2.45 A.M.		
Maximum Recorded Temperature	125F		
Equipment Number	8916		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	JON CHRISTENSEN	GEORGE PAYNE	

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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

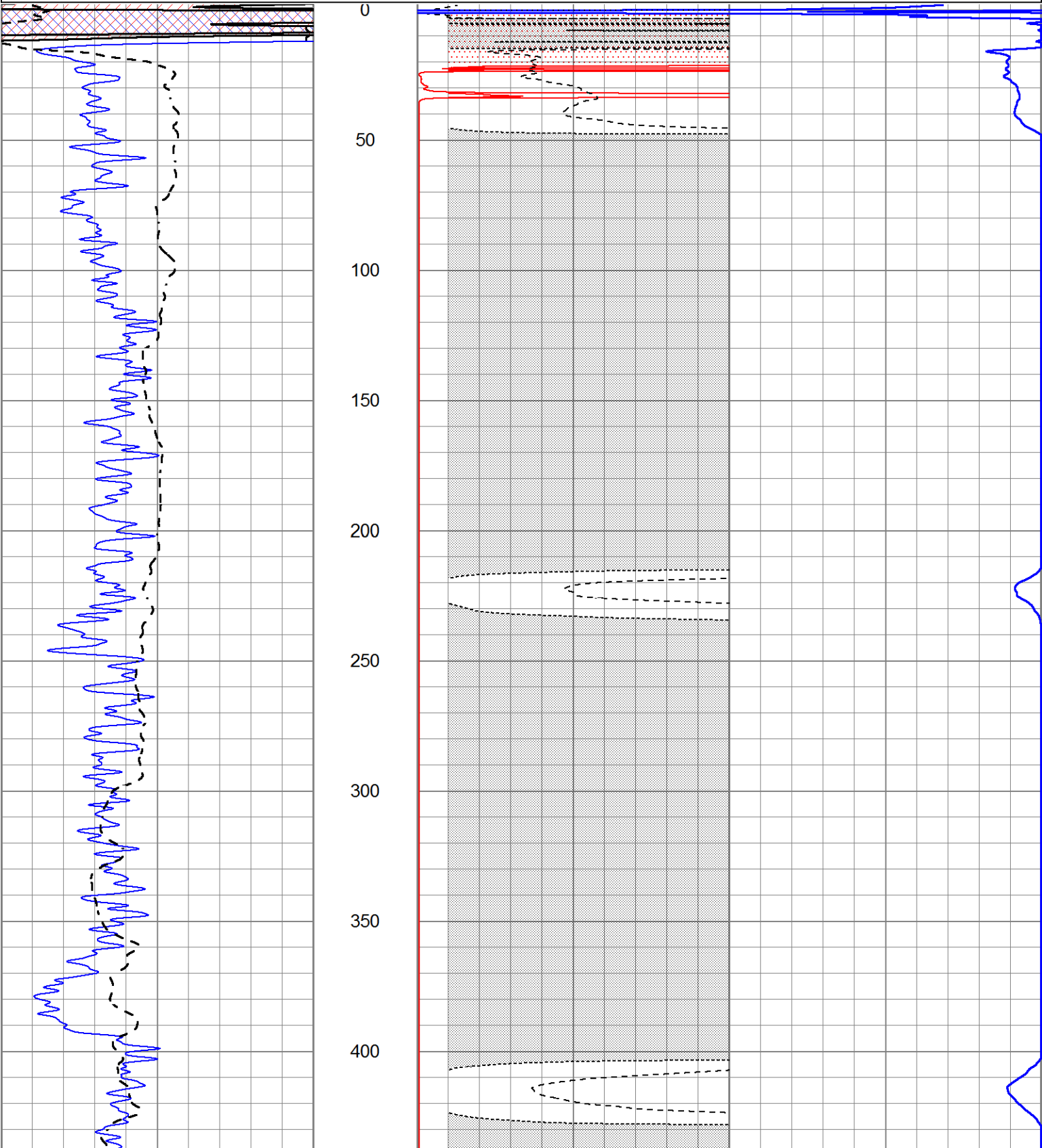
THANK YOU FOR USING ELI WIRELINE, HAYS, KS. (785) 628-6395
DIRECTIONS:
MULLINVILLE, KS., (HWY 400 & MAIN ST.) 1 1/2N. TO "RD. I-5", 2 1/2 W. TO INTERSECTION. 1/4 NW
IN PASTURE

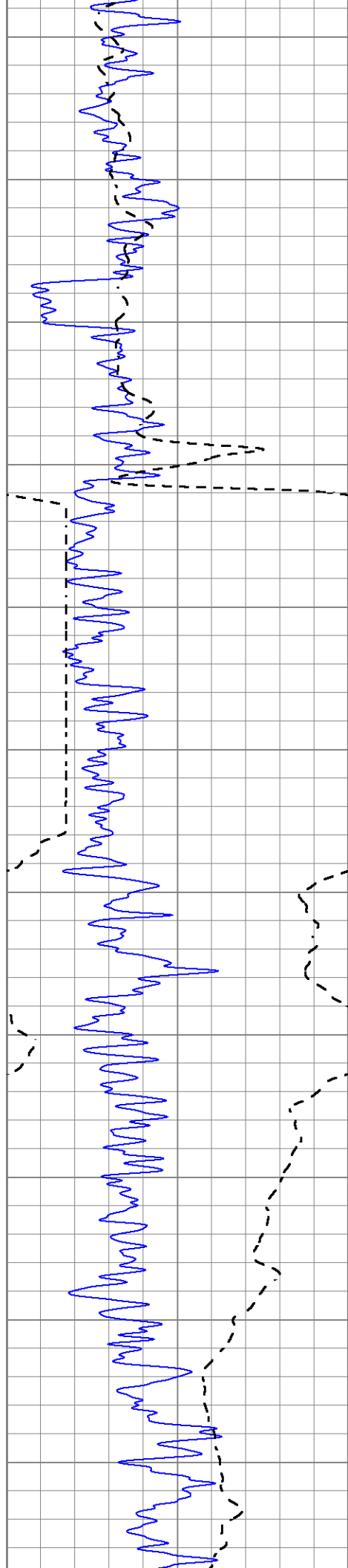


MAIN SECTION

Database File	6710pe.db
Dataset Pathname	pass3.1M
Presentation Format	_dil2
Dataset Creation	Tue Jul 12 04:19:36 2022
Charted by	Depth in Feet scaled 1:600

0	Gamma Ray (GAPI)	150	1000	CILD (mmho/m)	0
-100	SP (mV)	100	0	RLL3 (Ohm-m)	50
-----			0	RILD (Ohm-m)	50
			50	RILD X10 (Ohm-m)	500
			50	RLL3 X10 (Ohm-m)	500





450

500

550

600

650

700

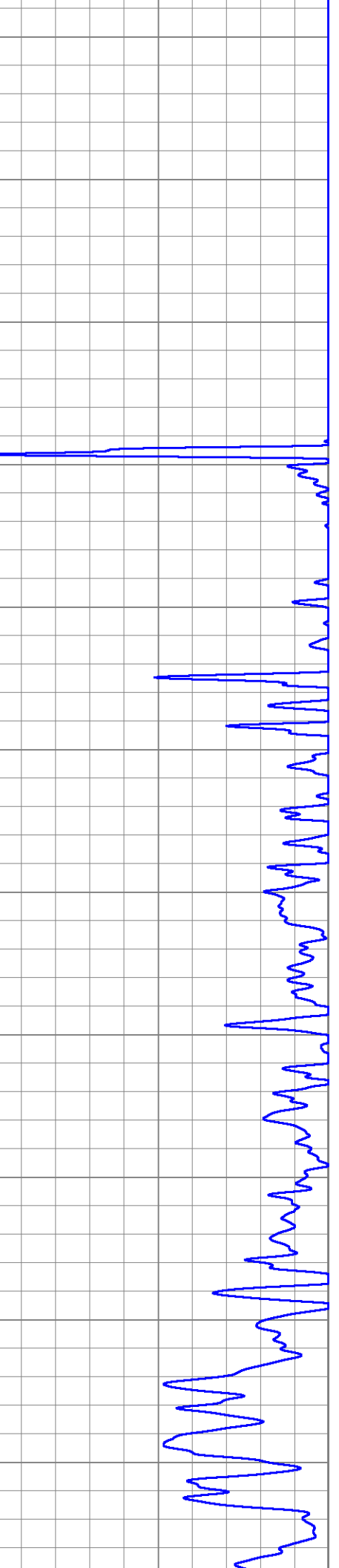
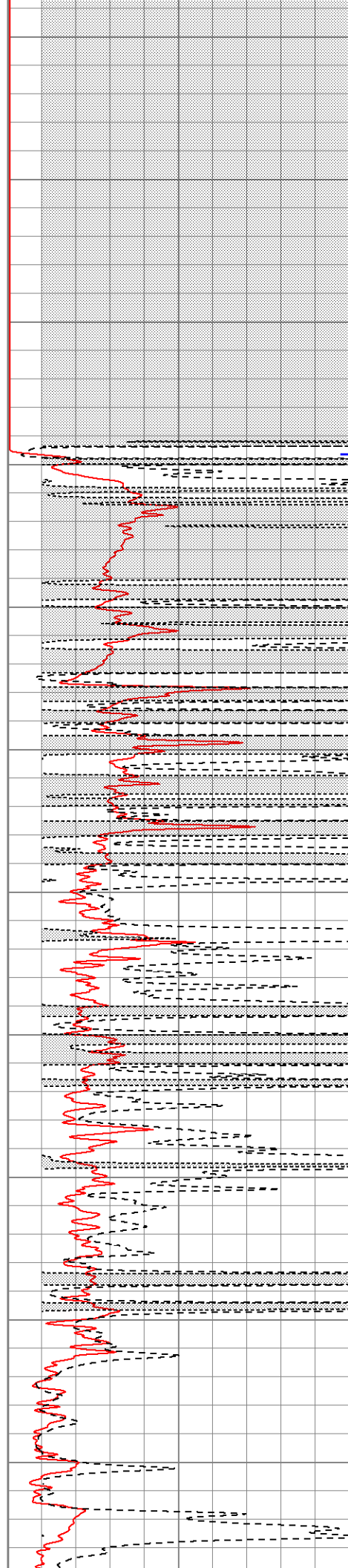
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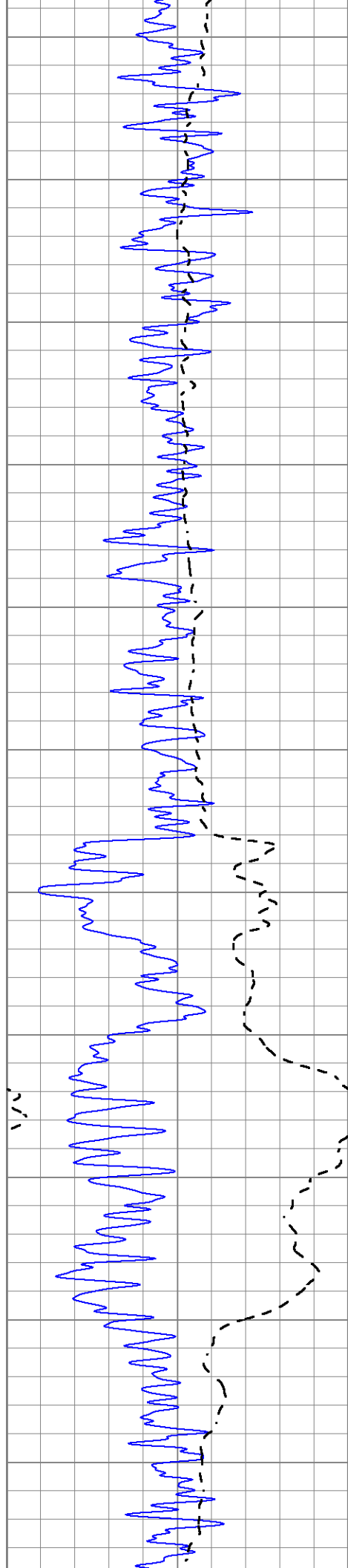
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850

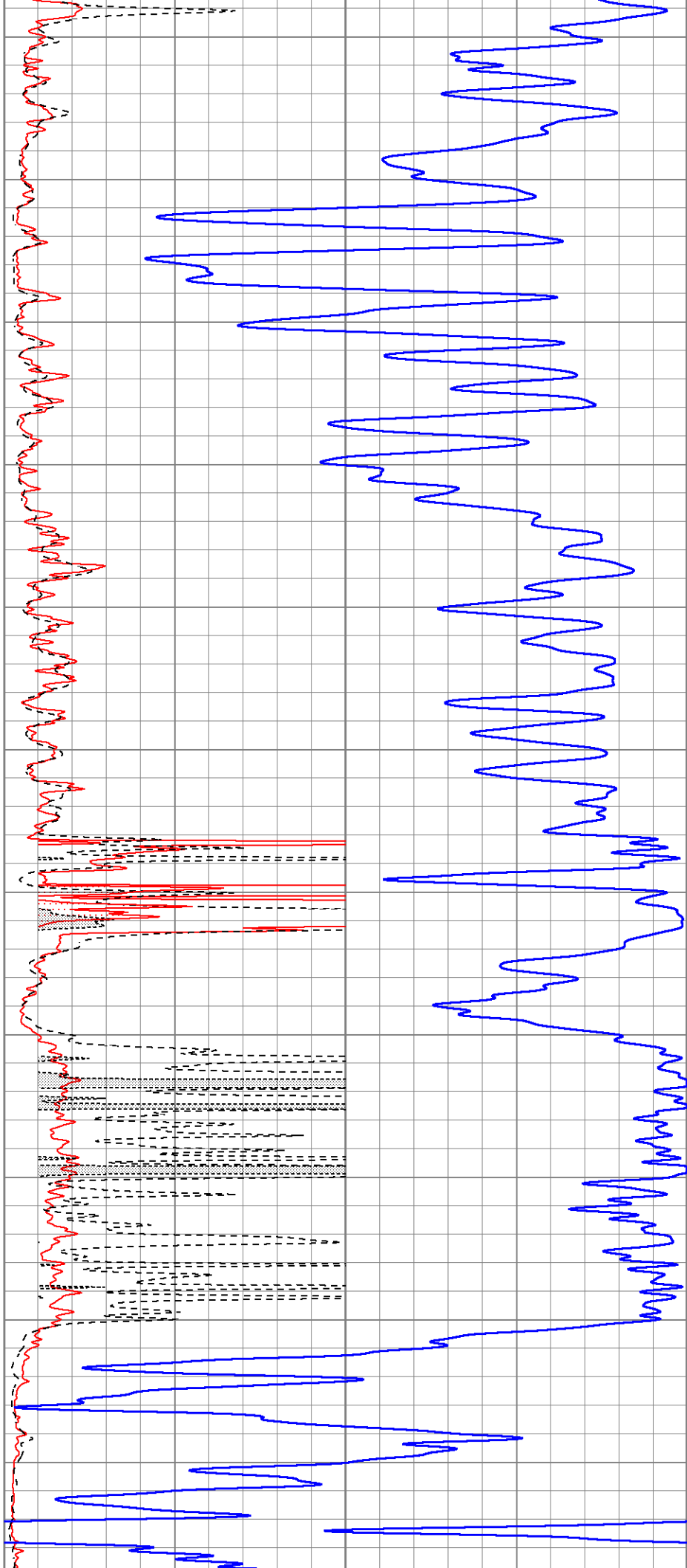
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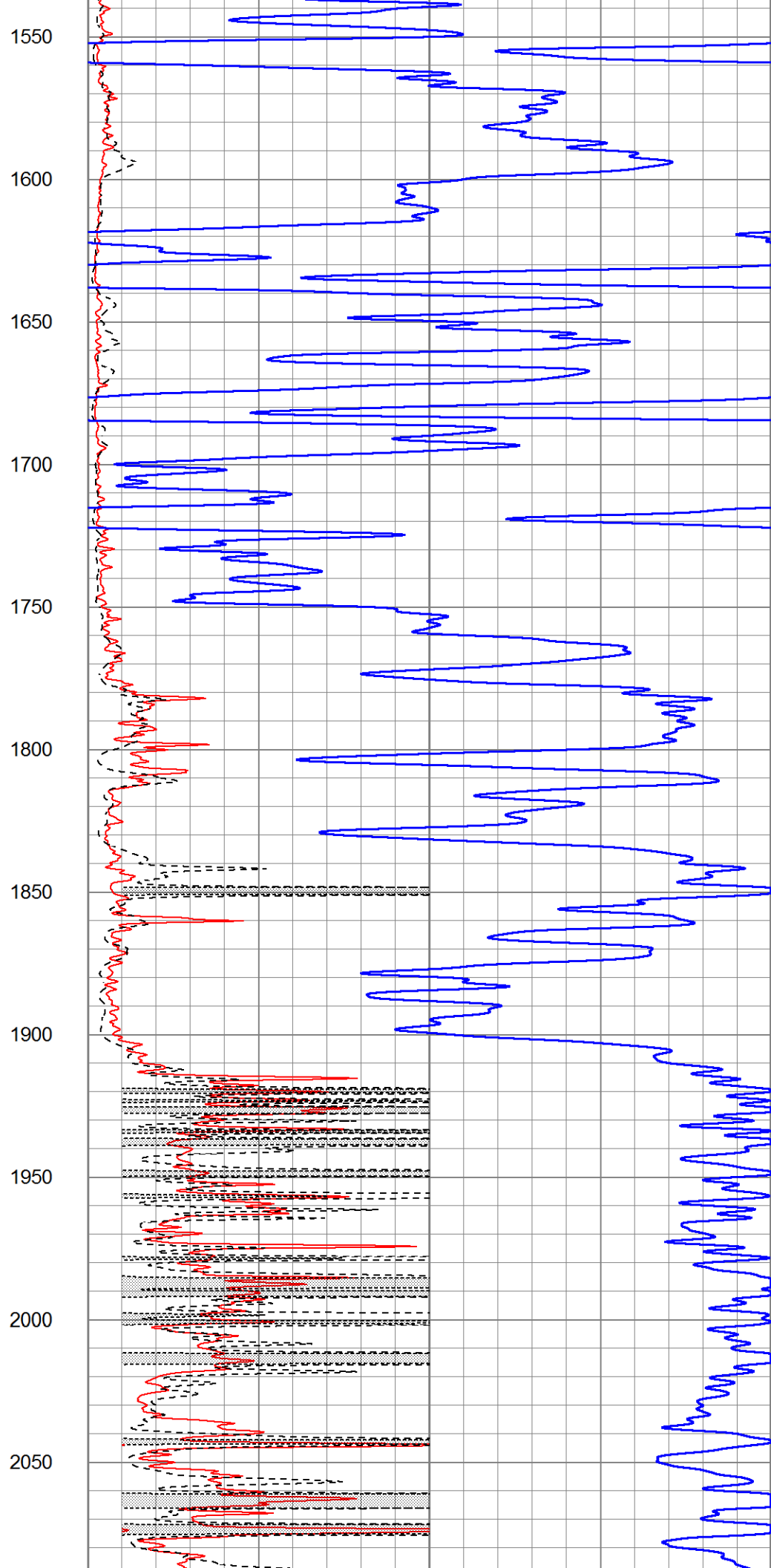
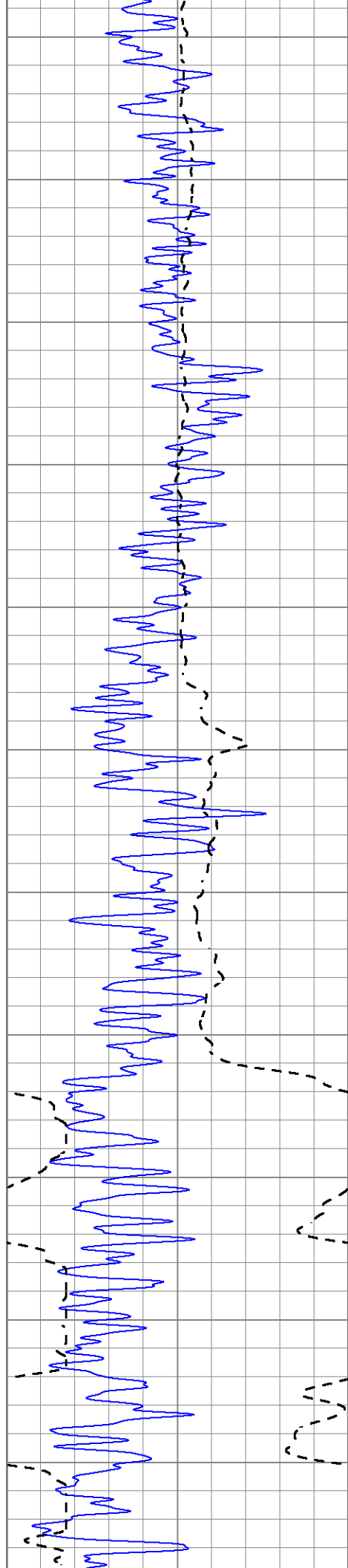
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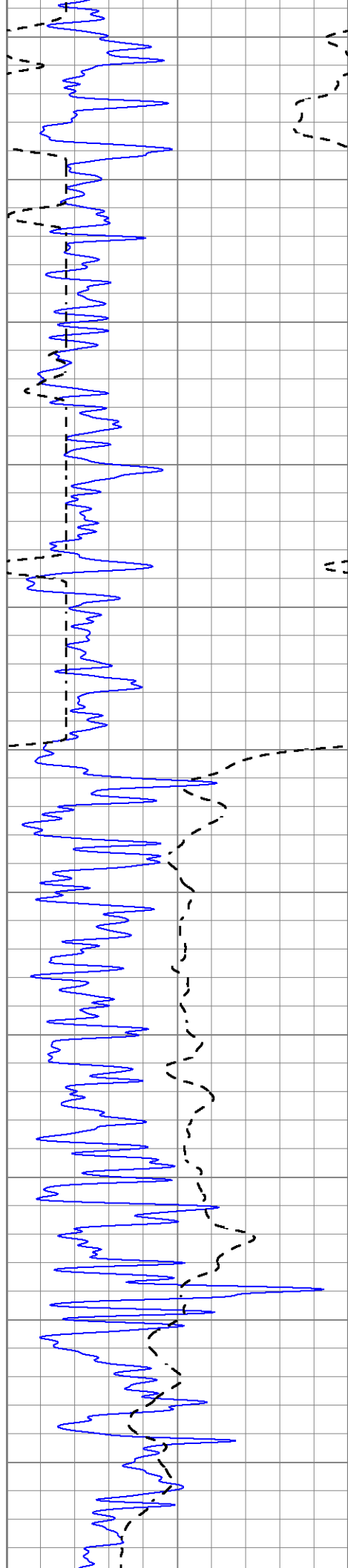




1000
1050
1100
1150
1200
1250
1300
1350
1400
1450
1500







2100

2150

2200

2250

2300

2350

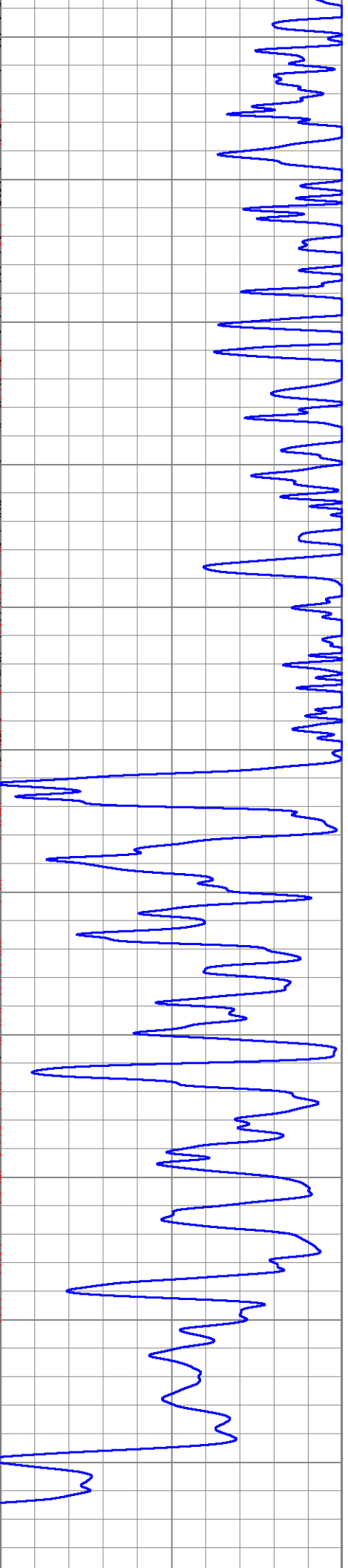
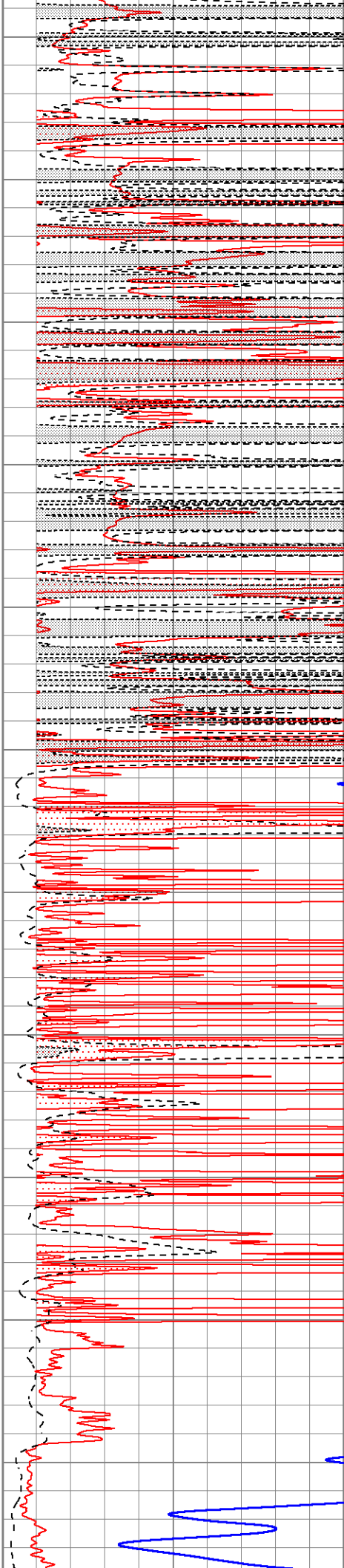
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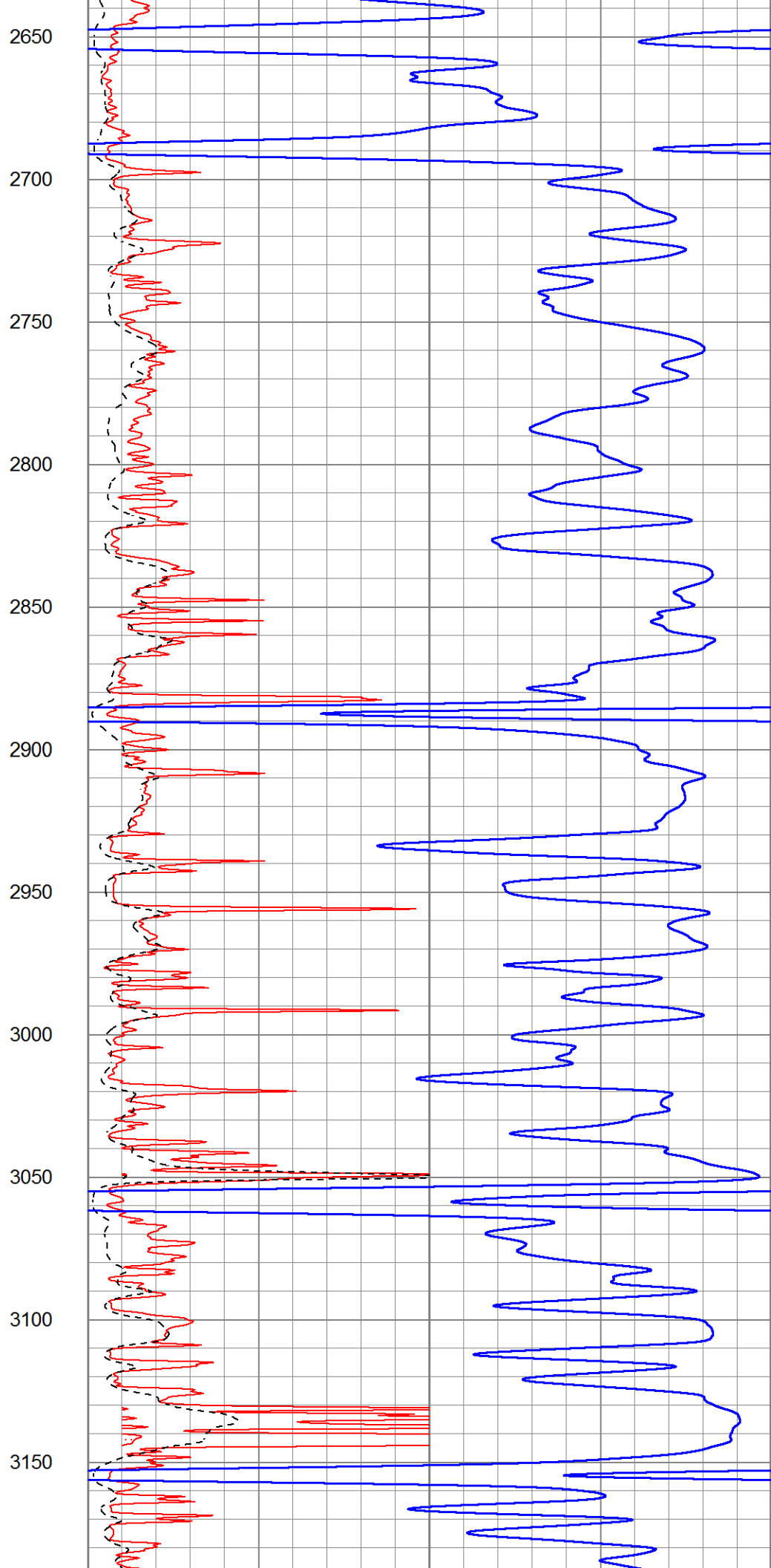
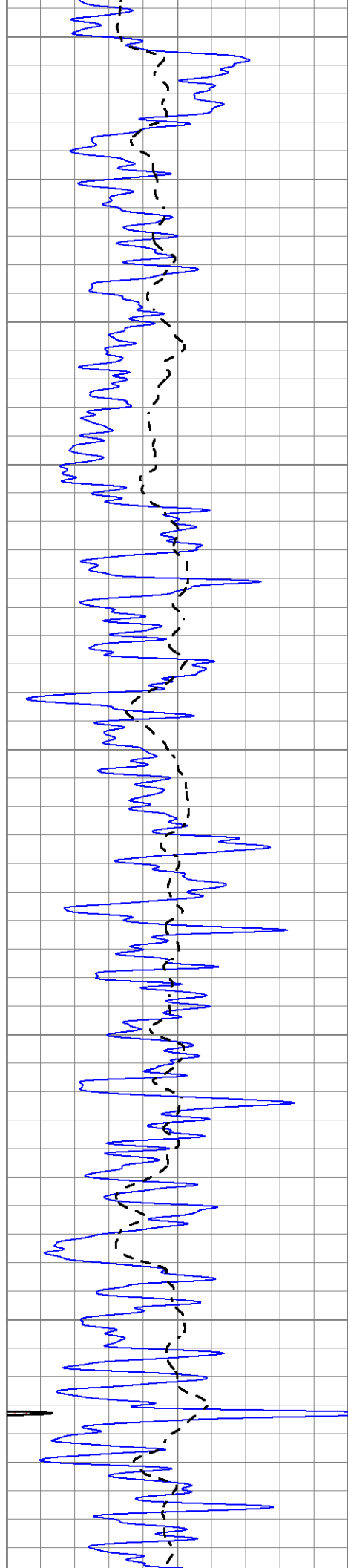
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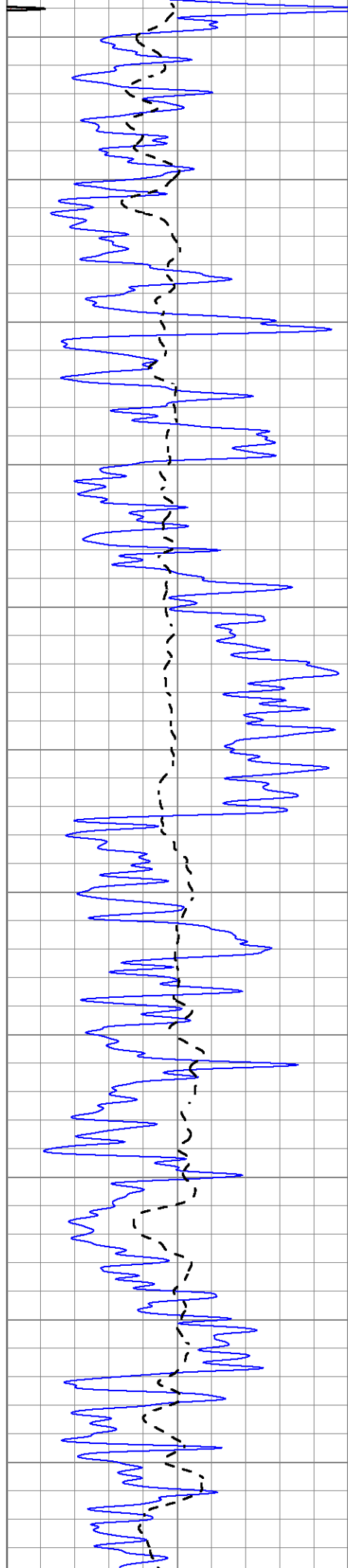
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2550

2600







3200

3250

3300

3350

3400

3450

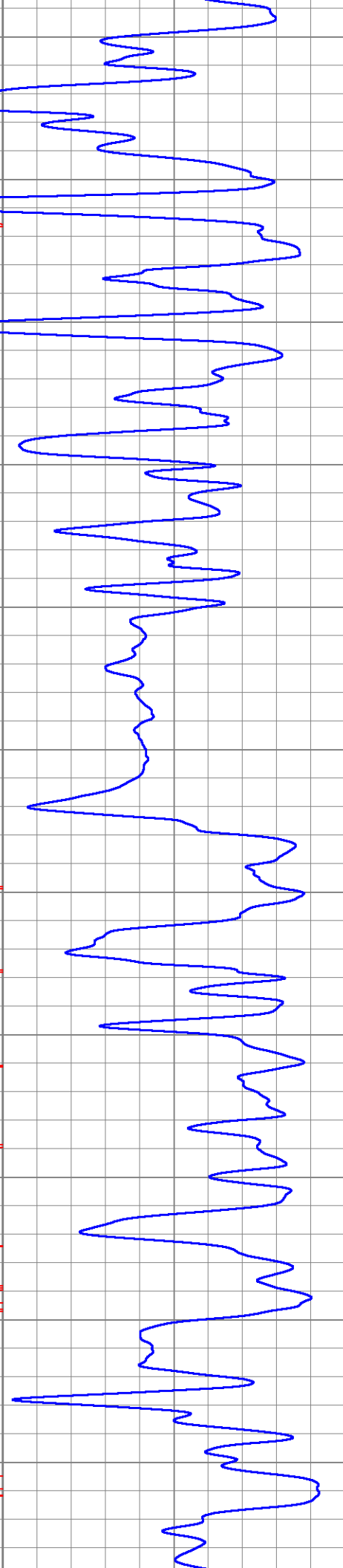
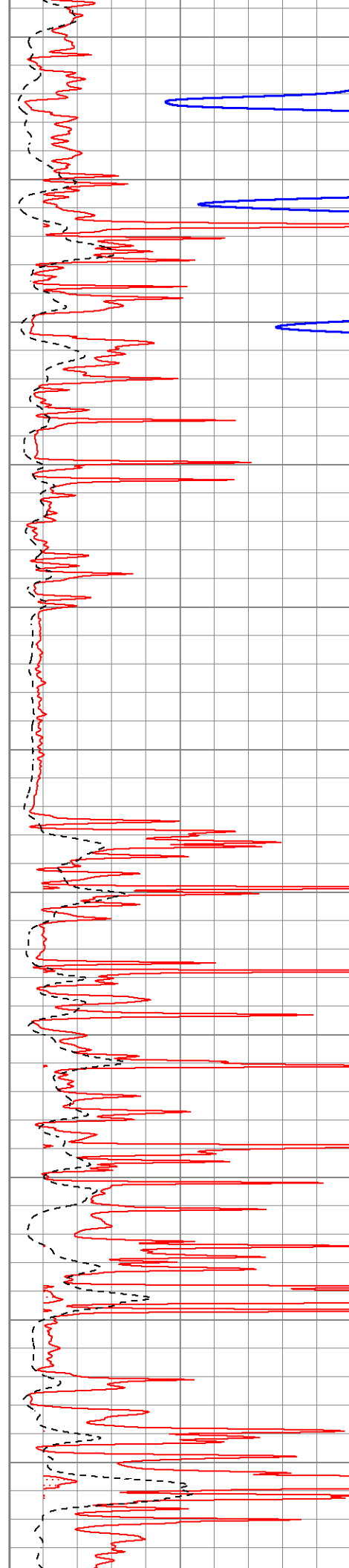
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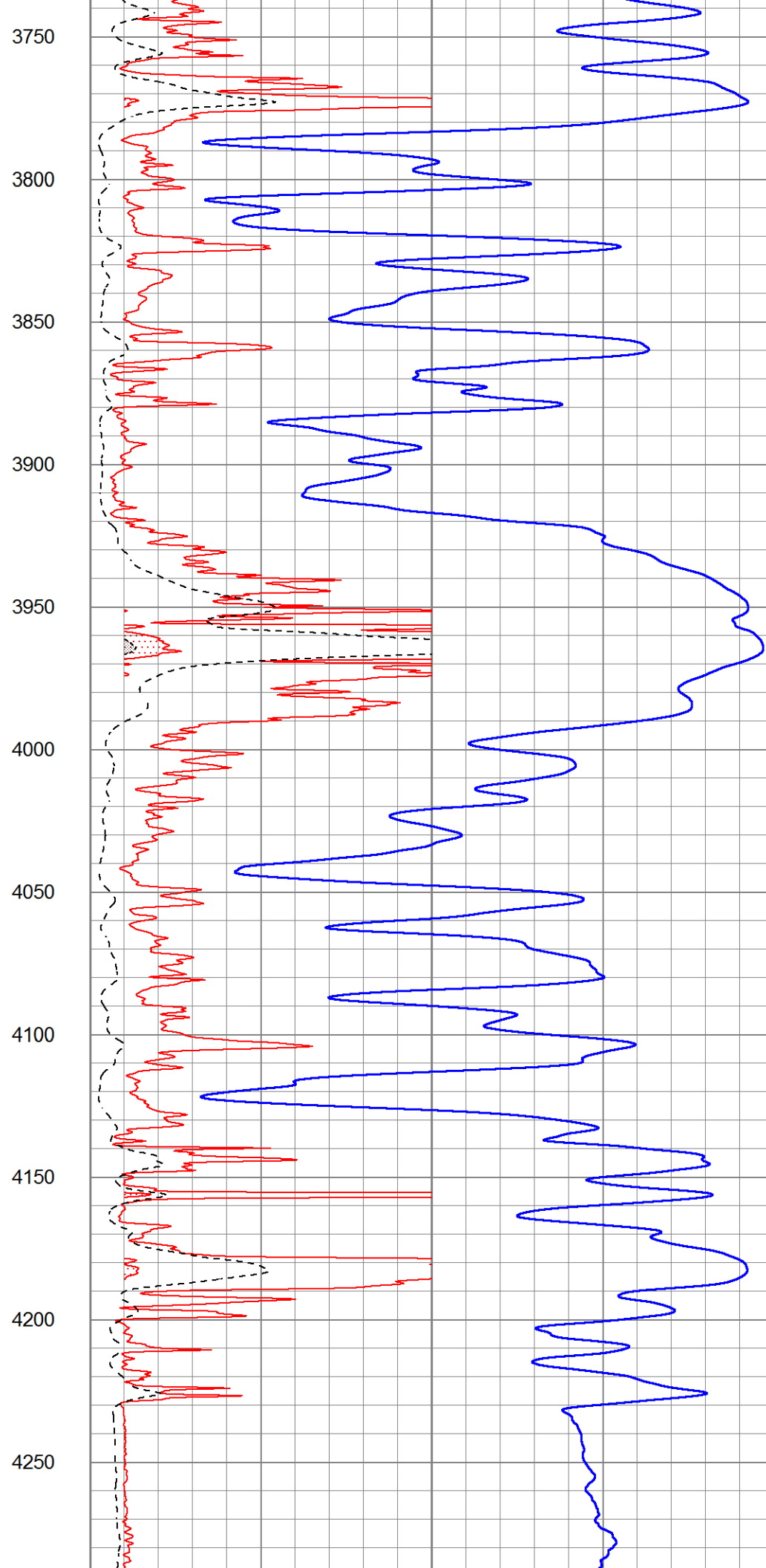
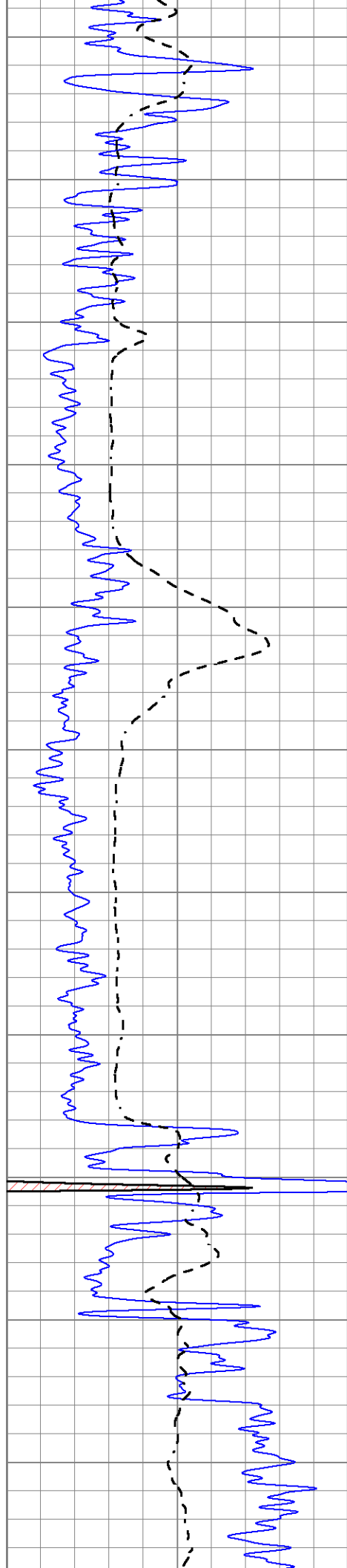
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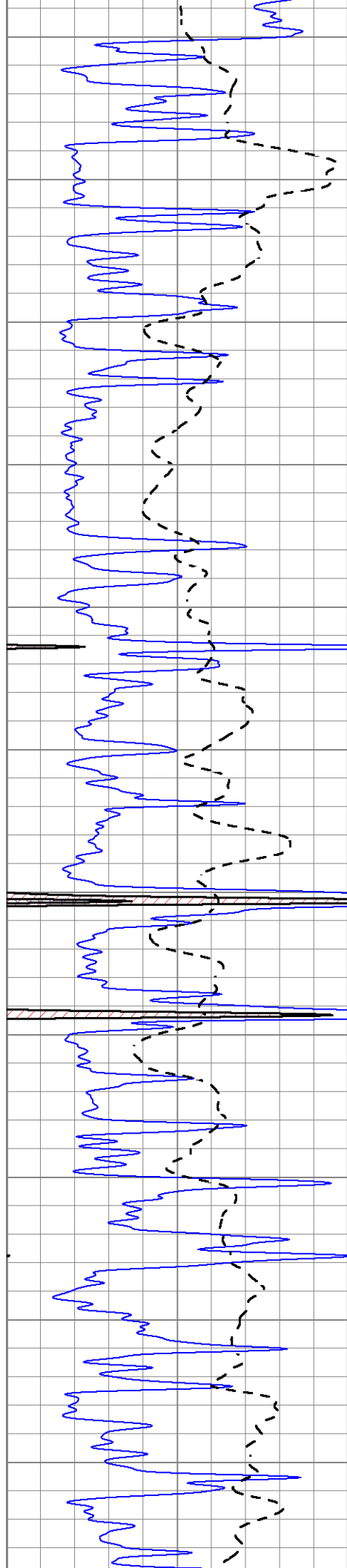
3600

3650

3700







4300

4350

4400

4450

4500

4550

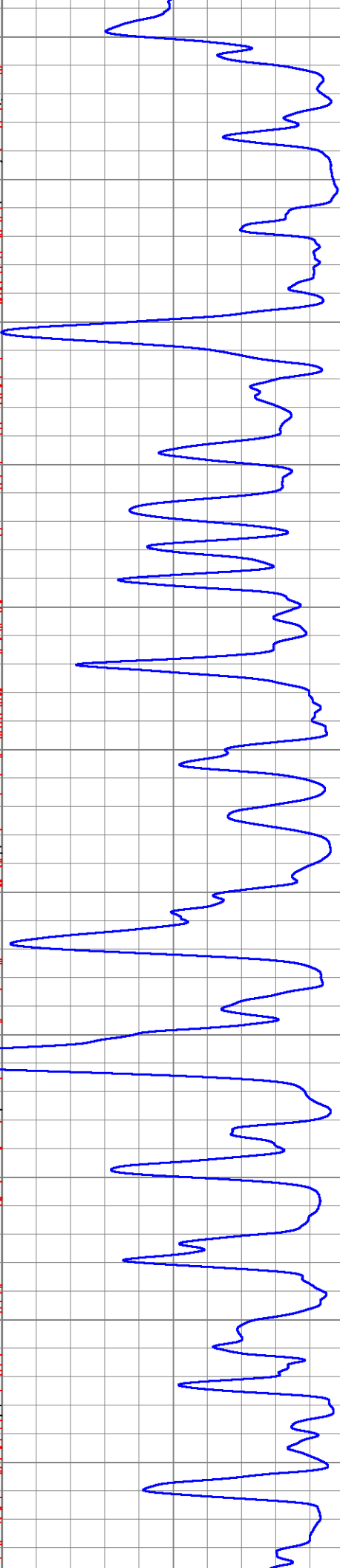
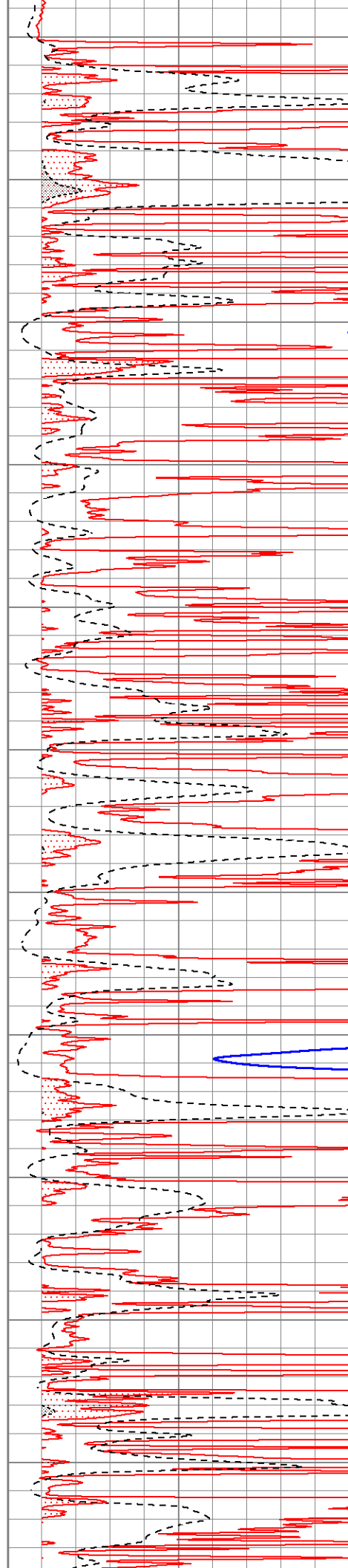
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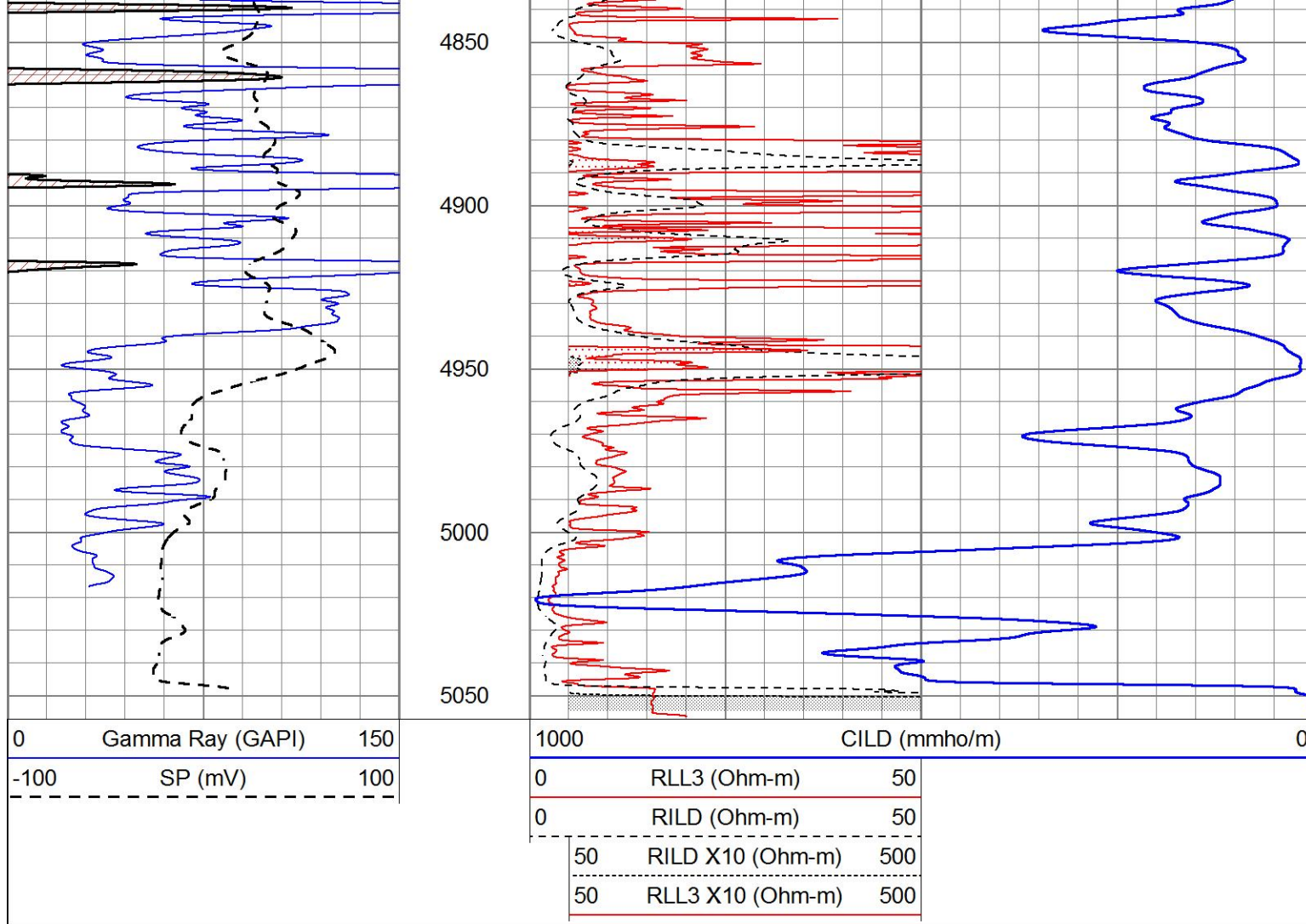
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4700

4750

4800

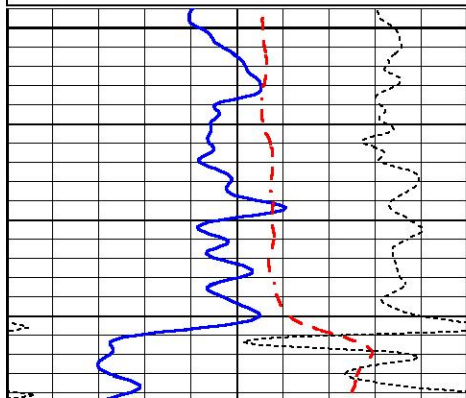




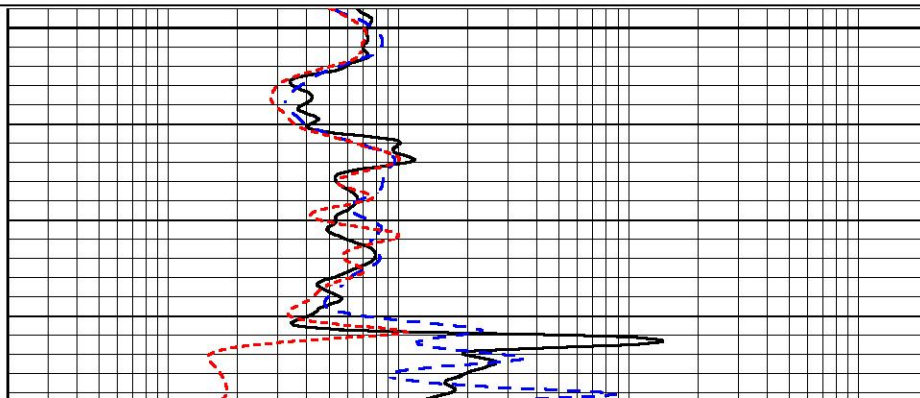
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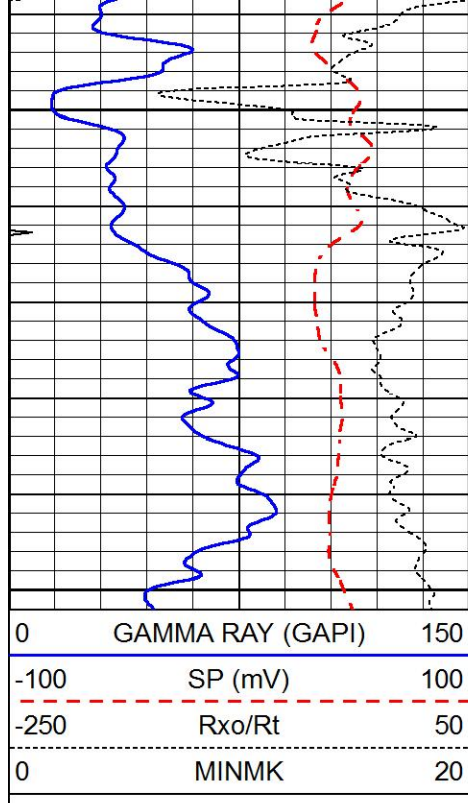
Database File 6710pe.db
 Dataset Pathname pass3.1A
 Presentation Format _dil
 Dataset Creation Tue Jul 12 04:19:49 2022
 Charted by Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	0.2	SHALLOW GUARD (Ohm-m)	2000
-100	SP (mV)	100	0.2	DEEP INDUCTION (Ohm-m)	2000
-250	Rxo/Rt	50	0.2	MEDIUM INDUCTION (Ohm-m)	2000
0	MINMK	20			



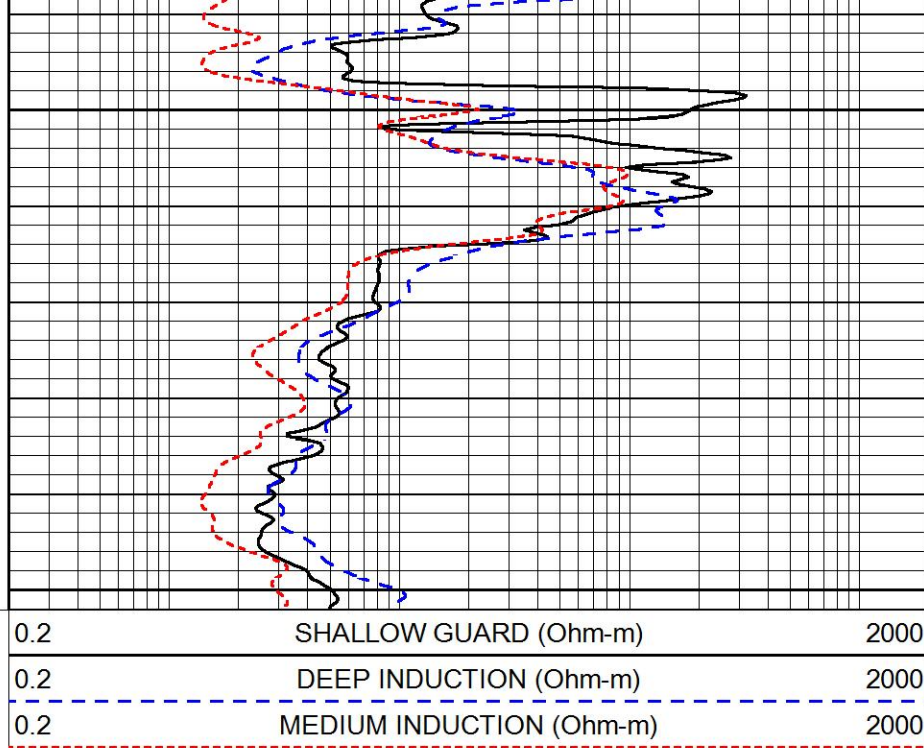
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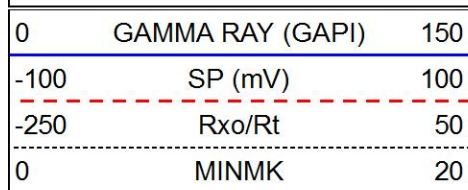
1300

1350



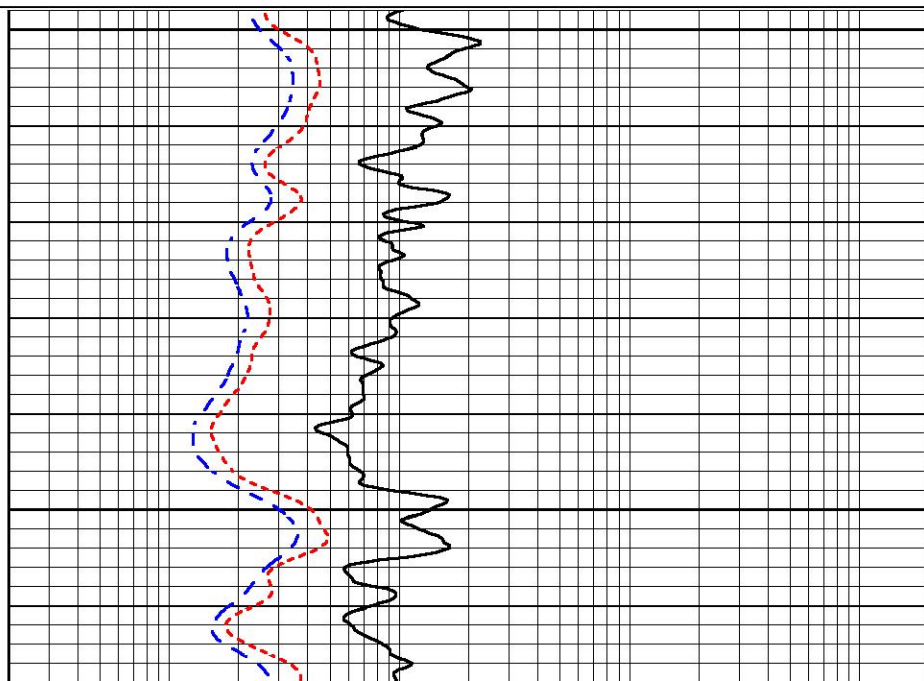
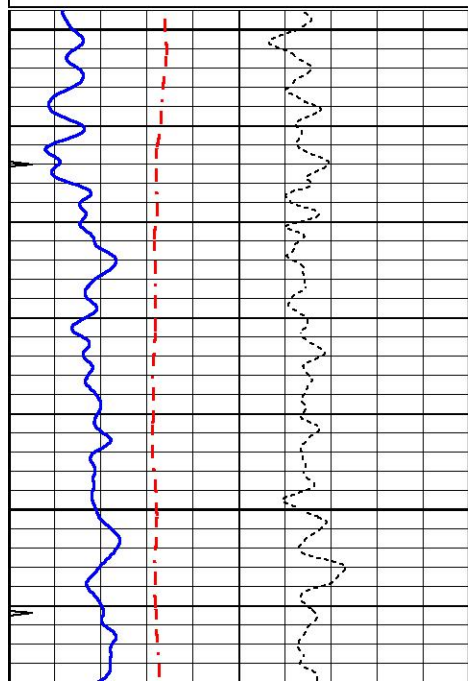
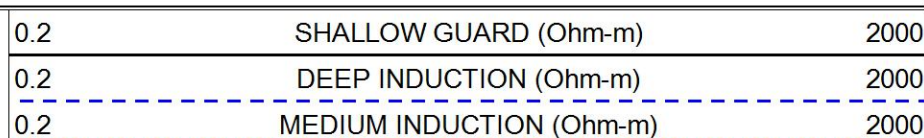
MAIN SECTION

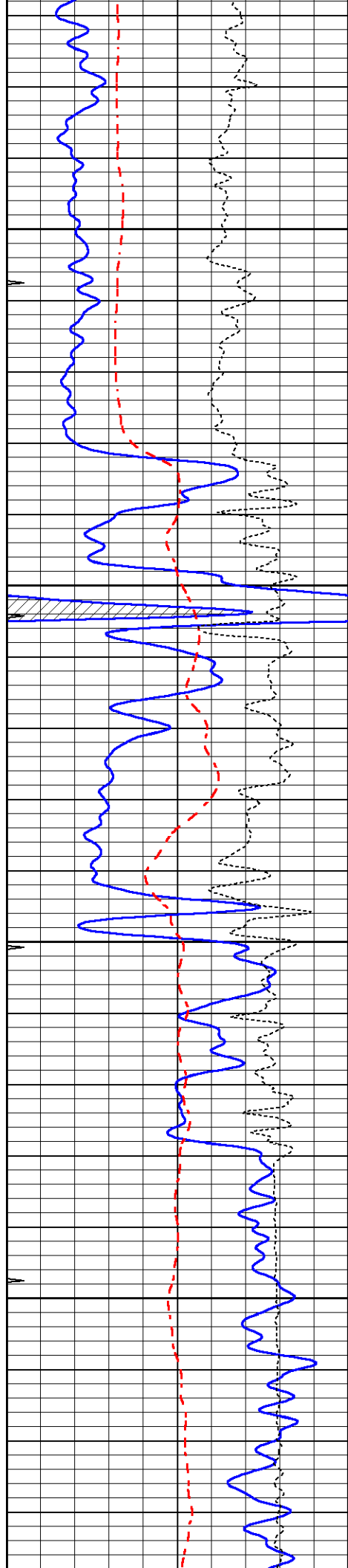
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 Dataset Pathname pass3.1M
 Presentation Format _dil
 Dataset Creation Tue Jul 12 04:19:36 2022
 Charted by Depth in Feet scaled 1:240



4000

4050



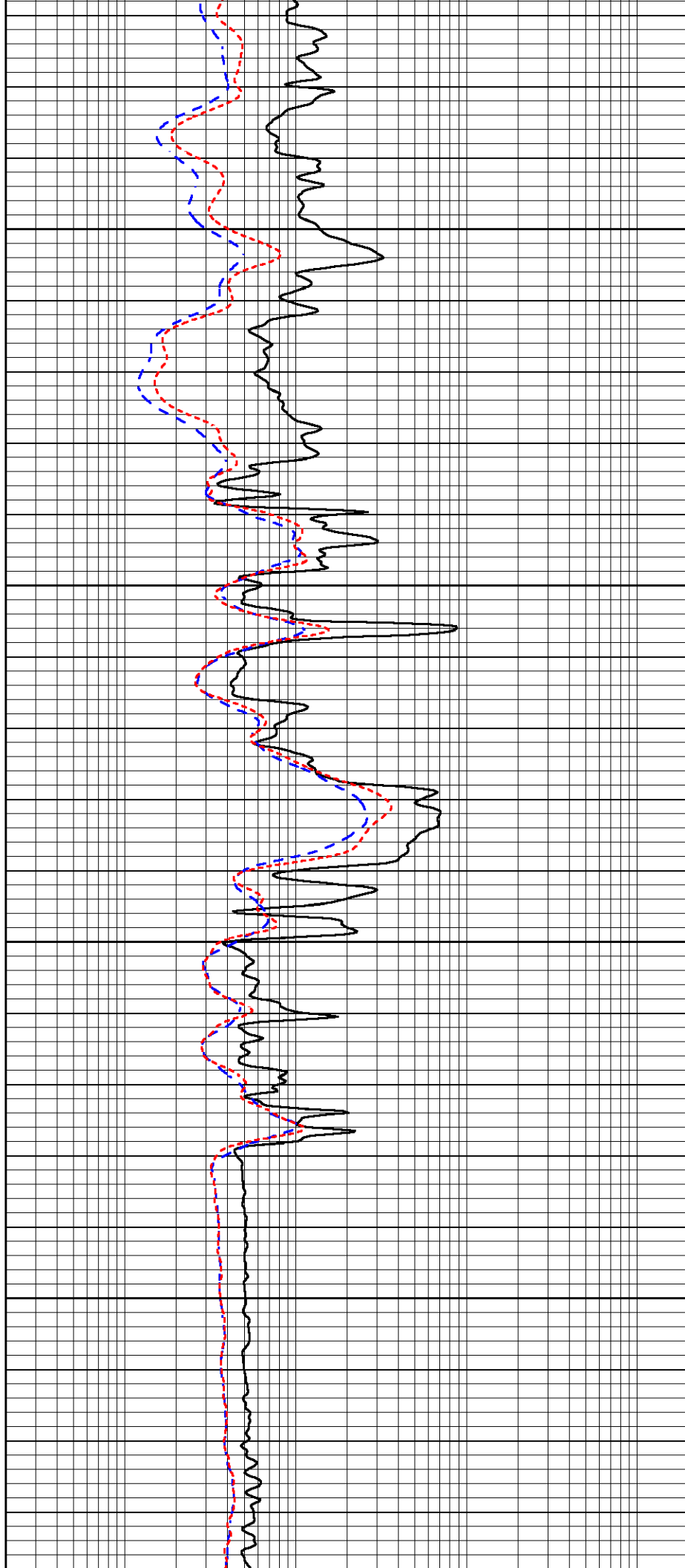


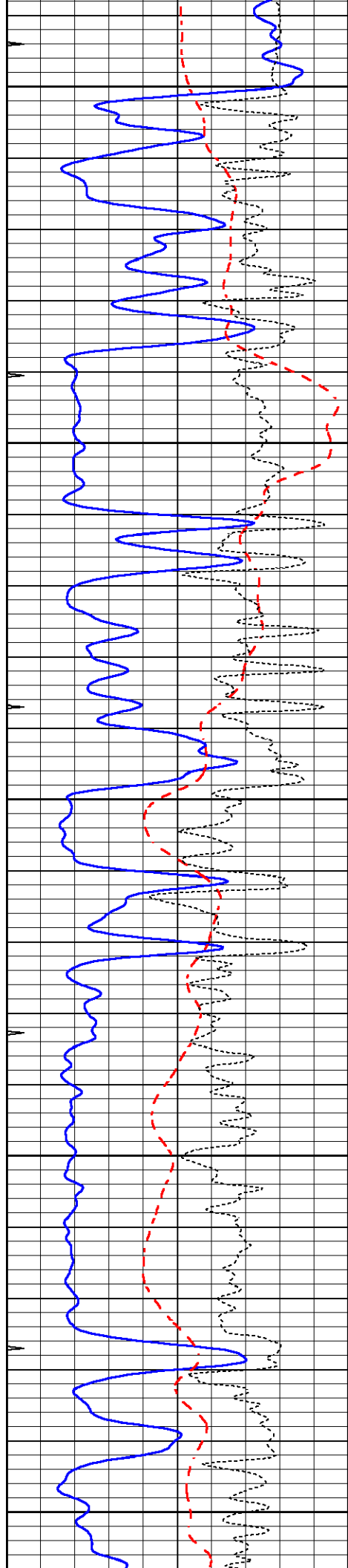
4100

4150

4200

4250





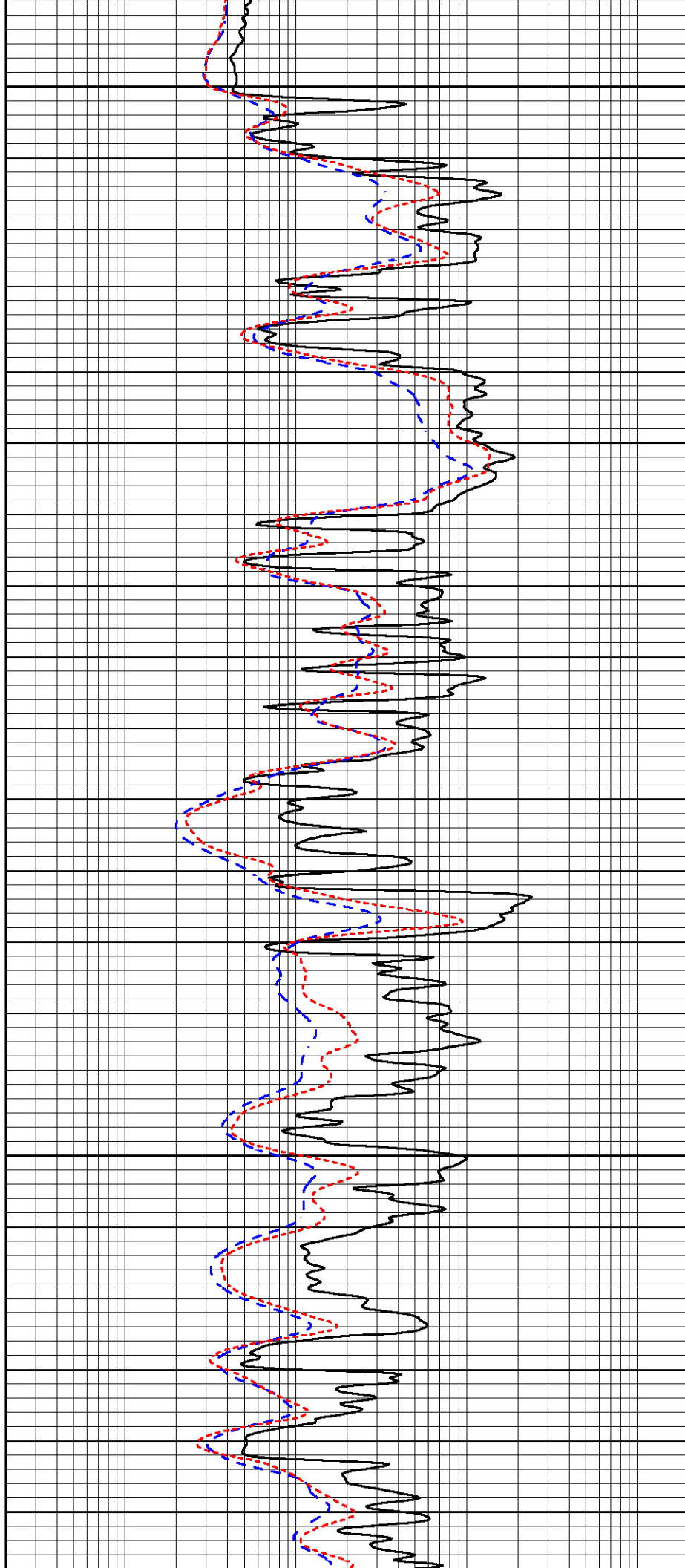
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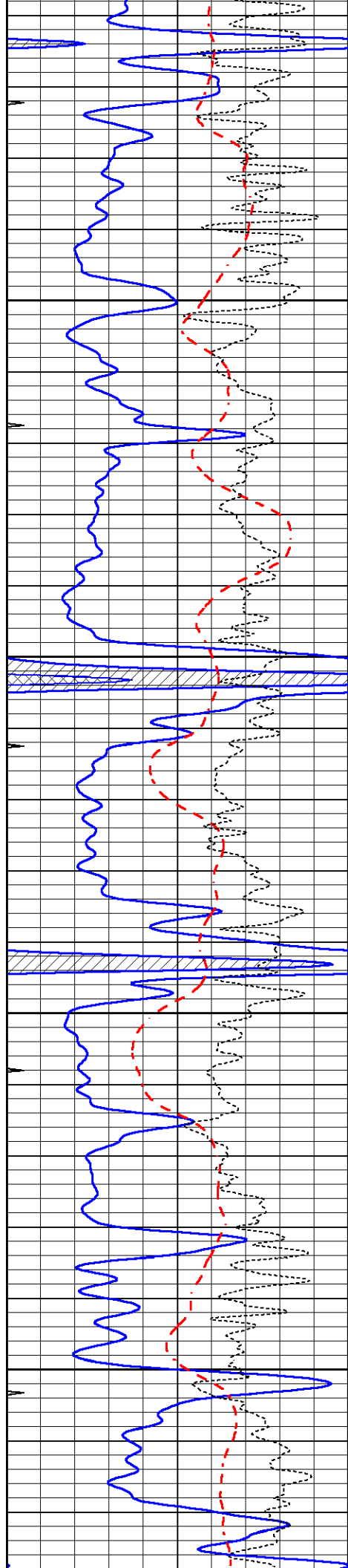
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4400

4450

4500



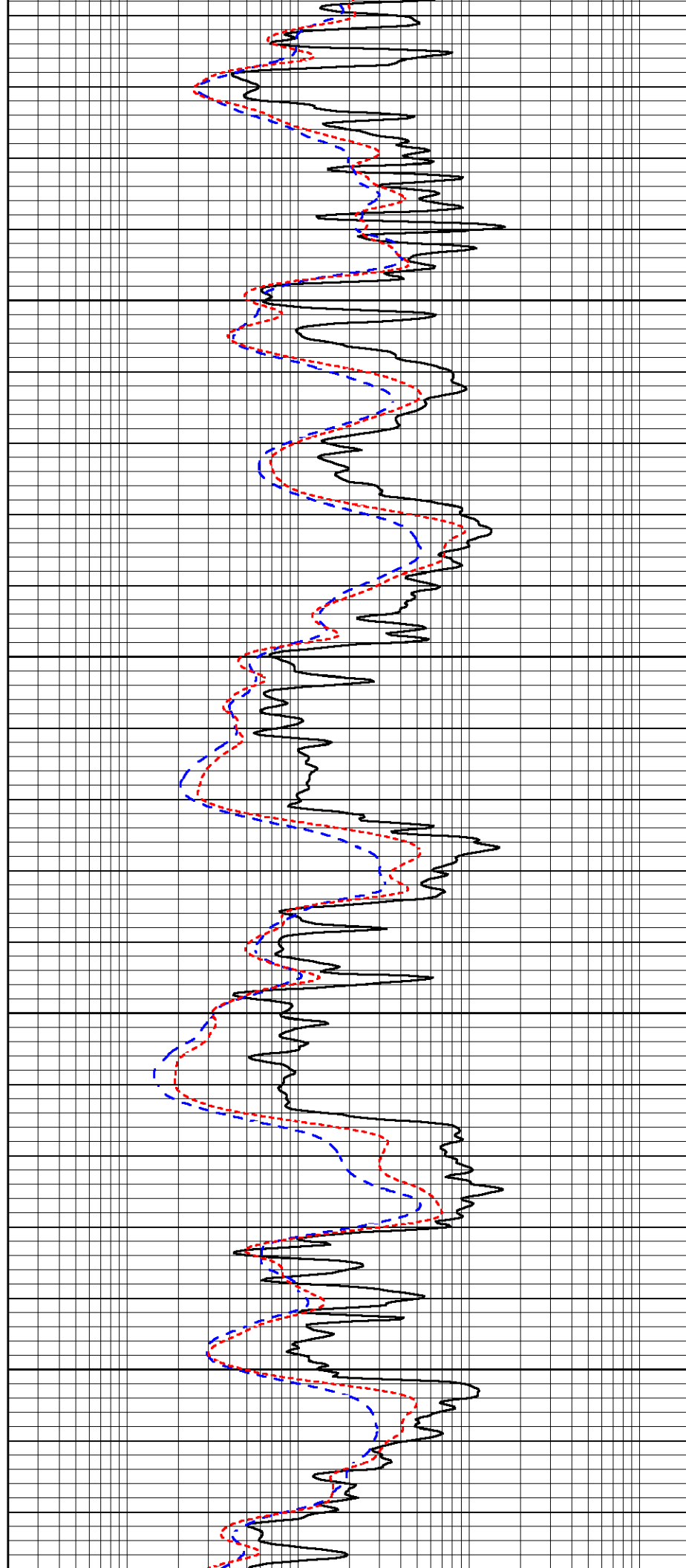


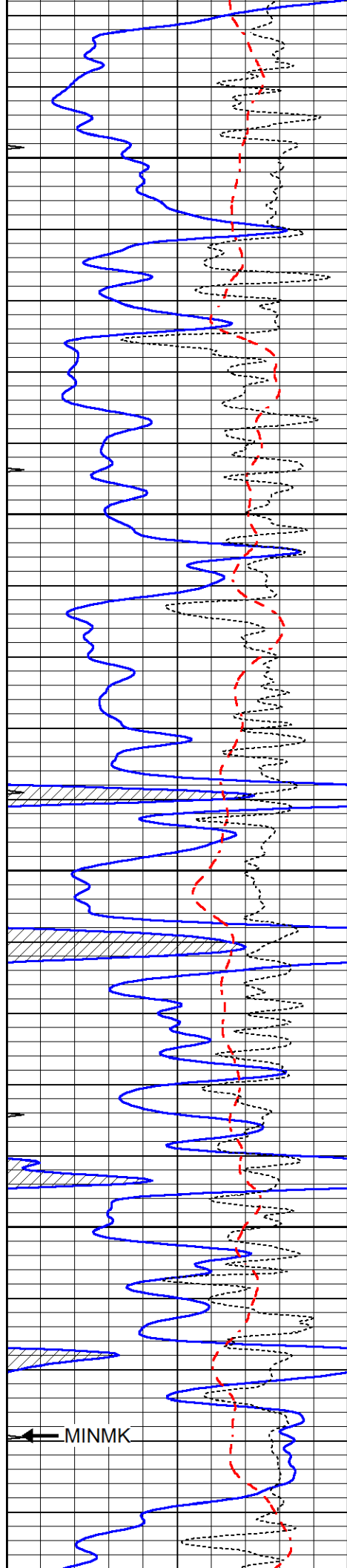
4550

4600

4650

4700





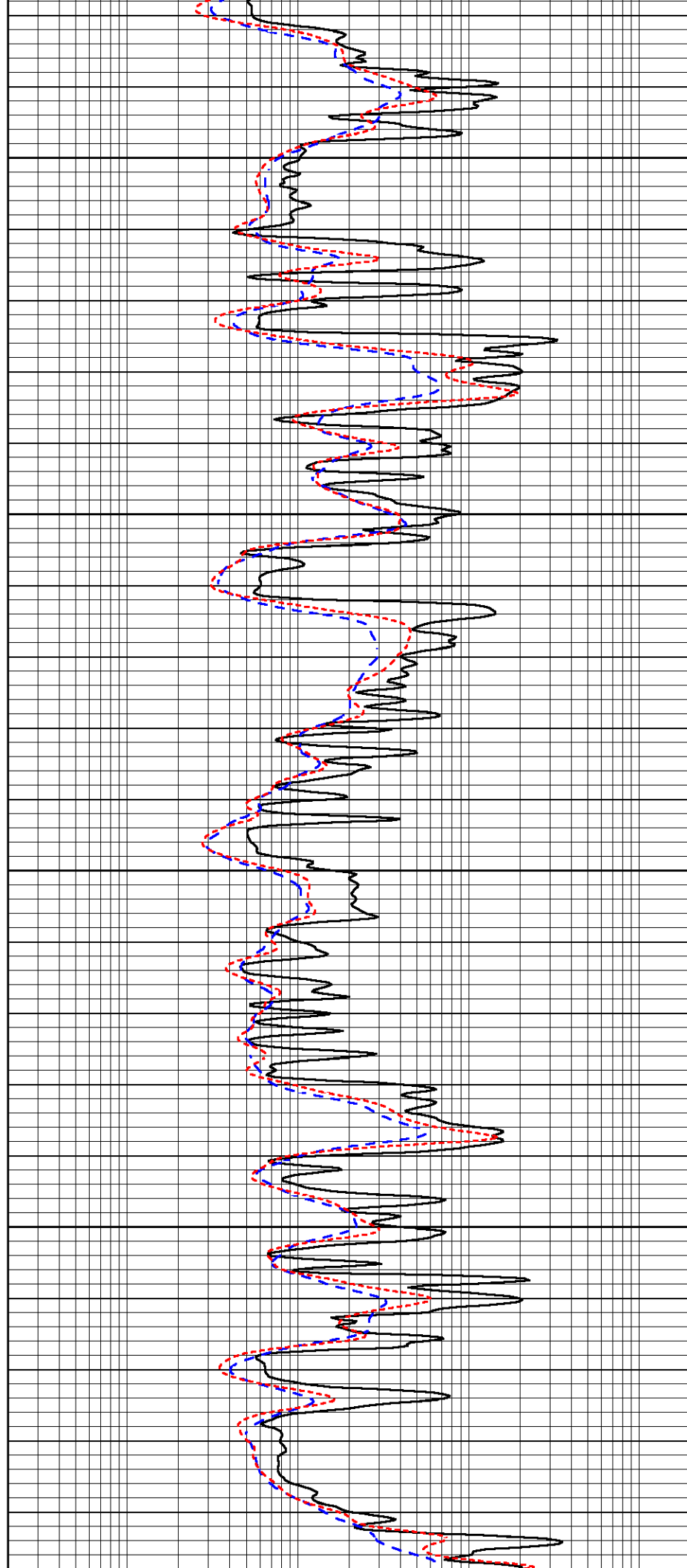
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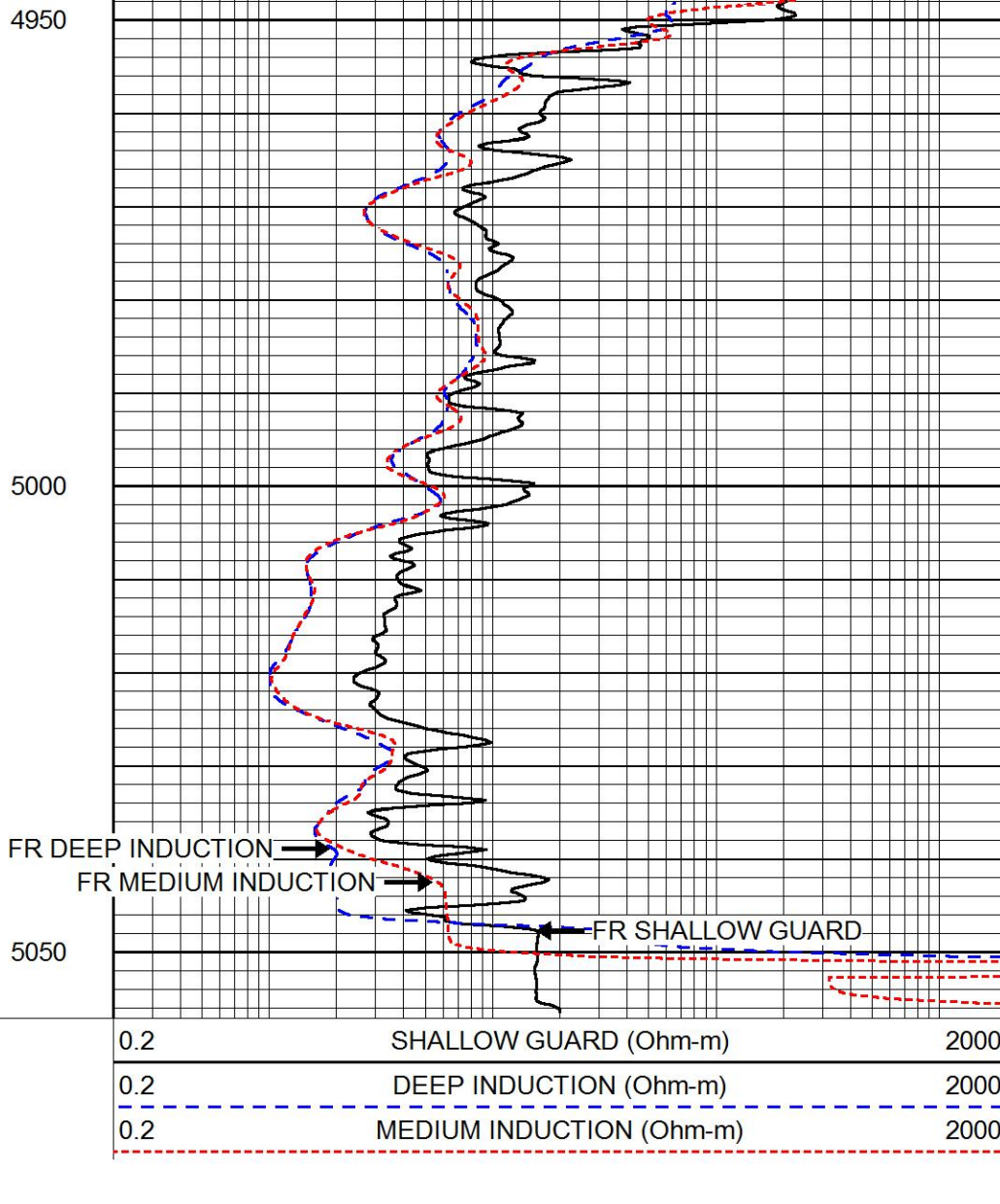
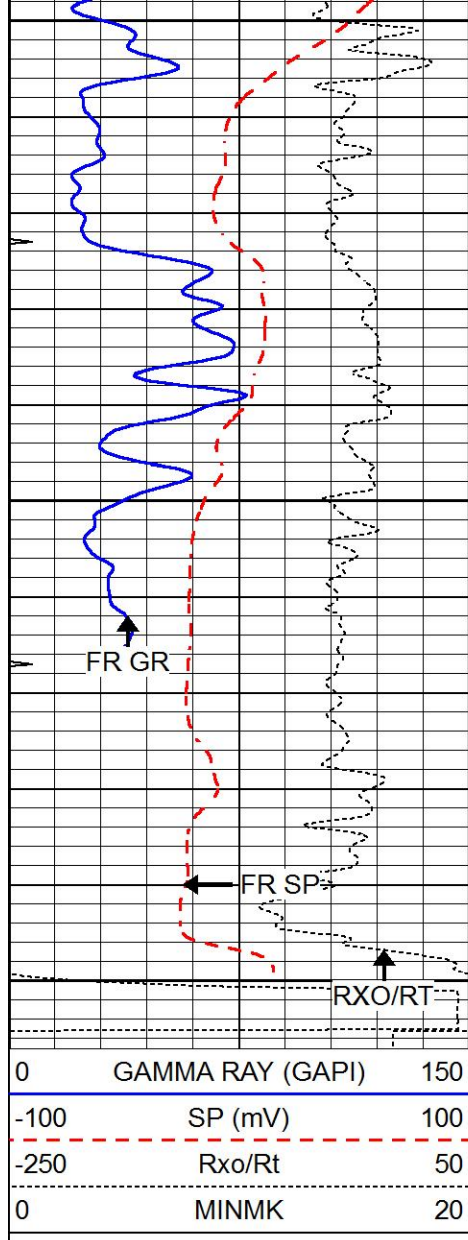
4800

4850

4900

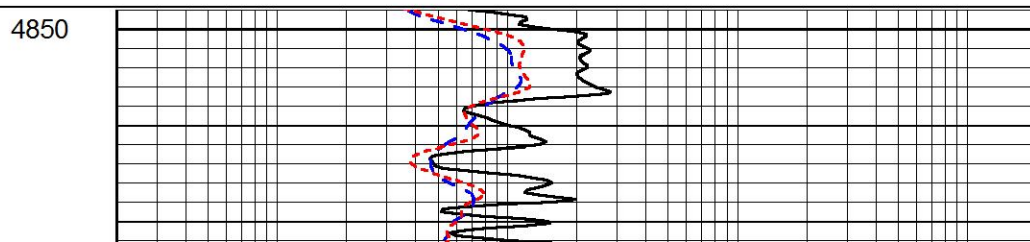
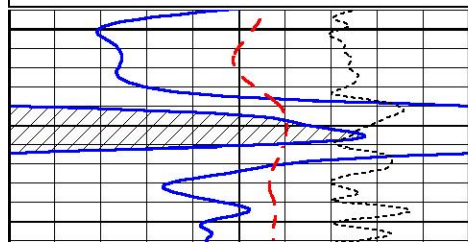
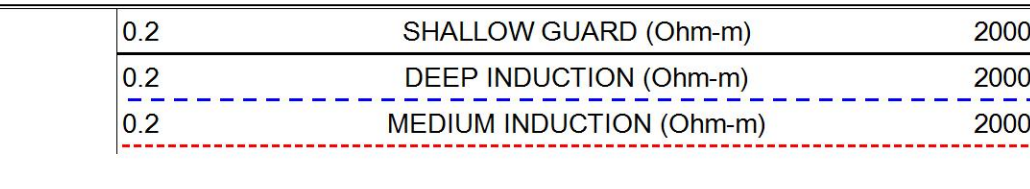
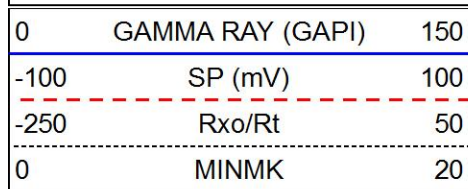
MINMK

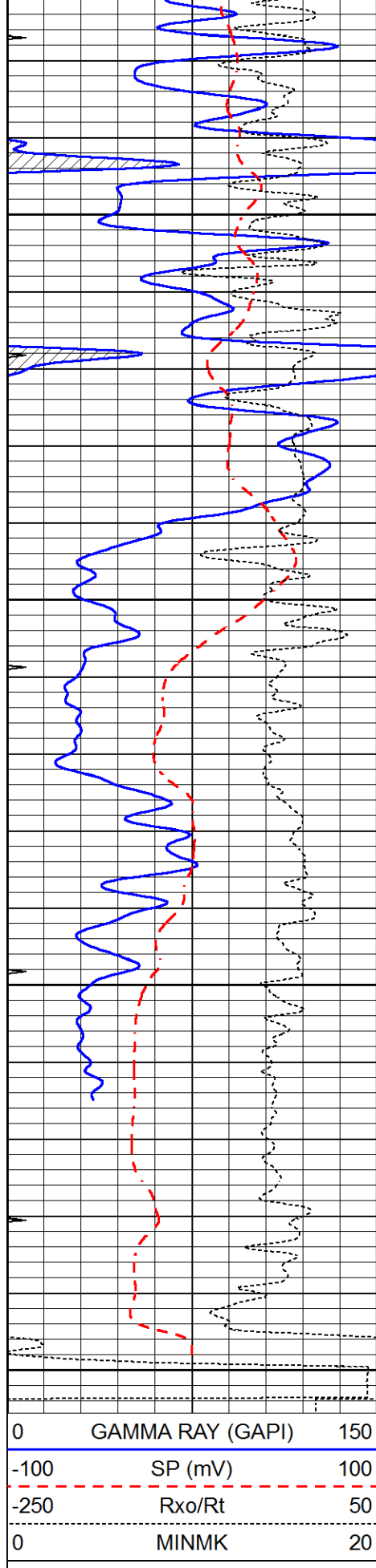




REPEAT SECTION

Database File 6710pe.db
 Dataset Pathname pass2.1R
 Presentation Format _dil
 Dataset Creation Tue Jul 12 04:23:54 2022
 Charted by Depth in Feet scaled 1:240



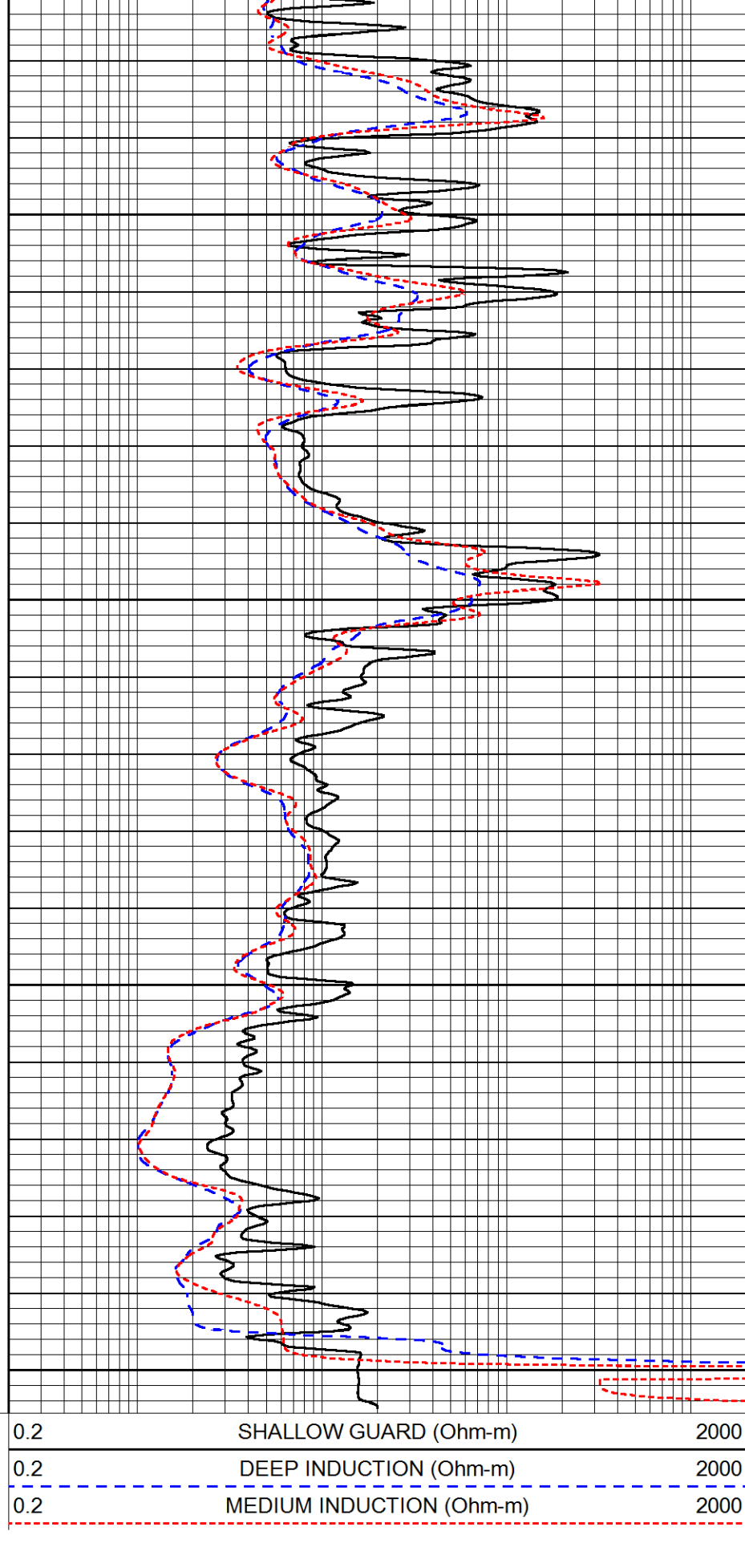


4900

4950

5000

5050



0.2

0.2

0.2

SHALLOW GUARD (Ohm-m)

DEEP INDUCTION (Ohm-m)

MEDIUM INDUCTION (Ohm-m)

2000

2000

2000

Calibration Report

Database File 6710pe.db
Dataset Pathname pass3 1M

Dual Induction Calibration Report

Serial-Model:

Surface Cal Performed:

Downhole Cal Performed:

After Survey Verification Performed:

PROBE8-DILG

Fri Jul 08 06:41:07 2022

Mon Sep 10 14:28:38 2018

Mon Sep 10 14:28:40 2018

Surface Calibration								
Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.015	0.648	V	0.000	400.000	mmho/m	620.000	-2.000
Medium	0.029	0.796	V	0.000	464.000	mmho/m	600.000	-15.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.017	0.657	V	0.000	400.000	mmho/m	625.153	-10.619
Medium	0.016	0.757	V	0.000	464.000	mmho/m	625.992	-9.739

Downhole Calibration								
Readings				References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	2.011	405.777	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	7.590	503.393	mmho/m	1.000	0.000
LL3		7.500	V		1500.000	Ohm-m		
		0.000	V		20.000	Ohm-m		
		-7.200	V		3800.000	mmho-m		

After Survey Verification								
Readings				Targets			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	0.000	0.000	mmho/m	0.000	0.000
Medium	0.000	0.000	mmho/m	0.000	0.000	mmho/m	0.000	0.000
LL3		1.000	Ohm-m		1.000	Ohm-m		
		0.000	Ohm-m		0.000	Ohm-m		
		1.000	mmho-m		1.000	mmho-m		

Litho Density Calibration Report

Serial: 002N Model: PRB

Master Calibration					Performed Tue Mar 10 15:08:00 2020			
	Background	Magnesium	Aluminum	Aluminum+Fe				
Window 1	780.1	6981.9	2088.6	1871.2				cps
Window 2	718.6	5898.2	1813.8	1664.1				cps
Window 3	580.0	2989.5	1088.0	1039.1				cps
Window 4	172.8	175.7	175.3	173.5				cps
Long Space	0.0	5179.6	1095.2	945.5				cps
Short Space	1.1	1228.6	821.2	690.4				cps
Rho		1.7100	2.5900	0.0000				g/cc
Pe		2.0000	2.7500	5.7900				
Rib Angle	: 45.5	Rib Slope	: 1.016	Density/Spine Ratio			: 0.548	
Spine Angle	: 75.5	Spine Slope	: 3.857	Spine Intercept			: -18.9	

Before Survey Verification					Performed Wed Dec 31 18:00:00 1969			
Window 1	0.0	0.0	0.0	0.0				

Window 1	0.0	0.0	0.0	0.0	cps
Window 2	0.0	0.0	0.0	0.0	cps
Window 3	0.0	0.0	0.0	0.0	cps
Window 4	0.0	0.0	0.0	0.0	cps
Long Space	0.0	0.0	0.0	0.0	cps
Short Space	0.0	0.0	0.0	0.0	cps
Measured Rho		0.0000	0.0000	0.0000	g/cc
Measured Correction		0.0000	0.0000	0.0000	g/cc
Measured Pe			0.0000	0.0000	

After Survey Verification			Performed Wed Dec 31 18:00:00 1969		
Window 1	0.0	0.0	0.0	0.0	cps
Window 2	0.0	0.0	0.0	0.0	cps
Window 3	0.0	0.0	0.0	0.0	cps
Window 4	0.0	0.0	0.0	0.0	cps
Long Space	0.0	0.0	0.0	0.0	cps
Short Space	0.0	0.0	0.0	0.0	cps
Measured Rho		0.0000	0.0000	0.0000	g/cc
Measured Correction		0.0000	0.0000	0.0000	g/cc
Measured Pe			0.0000	0.0000	

Compensated Neutron Calibration Report						
		Serial Number:		6I		
		Tool Model:		G		
CALIBRATION						
Detector		Readings		Target		Normalization
Short Space		1.00	cps	1.00	cps	1.0000
Long Space		1.00	cps	1.00	cps	1.0000
PRE-SURVEY VERIFICATION						
Detector		Readings		Measured		Target
1)	Short Space		cps			
	Long Space		cps	pu		pu
2)	Short Space		cps			
	Long Space		cps	pu		
3)	Short Space		cps			
	Long Space		cps	pu		
POST-SURVEY VERIFICATION						
Detector		Readings		Measured		Target
1)	Short Space		cps			
	Long Space		cps	pu		pu
2)	Short Space		cps			
	Long Space		cps	pu		pu
3)	Short Space		cps			
	Long Space		cps	pu		pu
Gamma Ray Calibration Report						
		Serial Number:				
		Tool Model:				

Performed:	Mon Jun 20 01:31:16 2022	
Calibrator Value:	150.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	276.0	cps
Sensitivity:	0.8500	GAPI/cps